

10/510598

2012460
12 OCT 2004

Enclosure 1.

Dossier expl.

DT04 Rec'd PCT/PTO

AMENDED CLAIMS

ART 34 AMDT

1. Method for preparation of a polymer composition at least comprising as main components
 - a polyolefin polymer grafted with an ethylenically unsaturated functionalised compound with at least a first functional group;
 - a reactive thermoplastic polymer with a second functional group which can react with the first; and
 - a base polymer, characterised in that the base polymer comprises at least 55 wt% of a single site catalyst polymerised polyolefin, and in that the base polymer and the polyolefin polymer, grafted with the ethylenically unsaturated functionalised compound in an amount of between 0.05 and 1.0 mgeq/g, are mixed with each other in the molten state, after which the resulting molten mixture is mixed in the melt with the reactive thermoplastic polymer, the proportion of the base polymer amounting to ~~more than 50 wt%, preferably to at least 55 wt%~~ and the proportion of the reactive thermoplastic polymer to at least 10 wt% of the total of the main components and the proportion of the reactive thermoplastic polymer amounting ~~amounts~~ to more than 50 wt% of the total of the reactive thermoplastic polymer and the polyolefin polymer grafted with an ethylenically unsaturated functionalised compound.
2. Polymer composition, obtainable according to the method of claim 1, comprising as main components
 - a polyolefin polymer grafted with an ethylenically unsaturated functionalised compound with at least a first functional group;
 - a reactive thermoplastic polymer with a second functional group which can react with the first; and
 - a base polymer comprising at least 55 wt% of a single site catalyst polymerised polyolefin, wherein the proportion of the base polymer amounts to ~~more than 50, preferably to at least 55 wt%~~ and the proportion of the reactive thermoplastic polymer to at least 10 wt% of the total of the main components, and wherein the proportion of the reactive thermoplastic polymer amounts to more than 50 wt% of the total of the reactive thermoplastic polymer and the polyolefin polymer grafted with an ethylenically unsaturated functionalised compound and wherein the quantity of the ethylenically unsaturated functionalised compound in the grafted polyolefin polymer is between 0.05 and 1.0 mgeq/g.
3. Polymer composition according to claim 2, in which the base polymer is polyethylene.
4. Polymer composition according to claim 2 or 3, in which the base polymer is a plastomer.
5. Polymer composition according to any one of claims 1-3, in which the reactive polymer is a polyamide.